

9/20/2005 1:00 PM

PN - JP8071755 A 19960319  
 TI - BUTT ONE SIDE WELDING METHOD OF ALUMINUM ALLOY MEMBER  
 AB - PURPOSE: To achieve the MIG welding in one pass with hardly generating weld defects such as the incomplete penetration or the like at a groove of a weld joint by composing a butt one side weld joint of a single drawn structure of an aluminum alloy plate to be welded on which a bent part as the single drawn part is formed and another aluminum alloy plate to be welded.  
 CONSTITUTION: A groove having an inclined groove surface 12a where one plate 11 to be welded is inclined toward a bent part 11a, the angle  $\theta$  to the plate surface (horizontal plane) is 30-60 deg., and the depth (d) from the plate surface is  $\geq 1/2$  of the thickness (t) of a plate 2 to be welded is formed as the groove of the plate 12 to be welded having no bent part 11a in place of the conventional square groove (vertical groove surface). The groove root part (groove bottom part) can be sufficiently melted by the arc, and the MIG welding can be achieved in one pass with hardly generating weld defects such as incomplete penetration and burn through at the groove part.  
 FI - B23K31/00&P; B23K33/00&Z; B23K9/173&A; B23K9/23&F  
 PA - KOBE STEEL LTD; SHINKO KIKI KOGYO KK  
 IN - SAITO MAKOTO; KATAOKA YASUTO; HAGIWARA SHIYUJI; FUKUDA KAZUHIRO; YAMAZAKI JUZO  
 AP - JP19940213838 19940907  
 PR - JP19940213838 19940907  
 DT - I

GAP: 1000000

AN - 1996-203977 [21]  
 TI - Butt-welding for splicing of 2 aluminium@ alloy plates - by stepping welding edge of one plate, placing other plate on stepped section and welding  
 AB - J08071755 The welding edge section of one Al alloy plate is stepped, and the welding edge section of the other plate is placed on the stepped section. MIG welding is then carried out.  
 - ADVANTAGE - A weld joint with no defect is formed.  
 - (Dwg.1/8)  
 IW - BUTT WELD ~~SPICE~~ ALUMINIUM@ ALLOY PLATE STEP WELD EDGE ONE PLATE PLACE PLATE STEP SECTION WELD  
 PN - JP8071755 A 19960319 DW199621 B23K9/23 006pp  
 IC - B23K9/173 ;B23K9/23 ;B23K31/00 ;B23K33/00  
 MC - M23-D01A4  
 DC - M23 P55  
 PA - (KOBM ) KOBE STEEL LTD  
 IN - (SHIN-N) SHINKO KIKI KK  
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 ABD - 19960731  
 ABV - 199607  
 AP - JP19940213838 19940907